



MICROCOPY RESOLUTION TEST CHART

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	CUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
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DK 1160	4D-10874	5 Type of REPORT & PERIOD COVERS
19704B MLRS	(S A C C C C C C C C C C C C C C C C C C
Missile Number 197		
Round Number B-76	1980.	6. PERFORMING ORG. REPORT NUMBER
25 January	7780	B. COUTRACT OR GRANT NUMBER R(H)
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Dy	bution	
_Avail	ability	7 Codes
Dist.	Avail a spect	•

INTRODUCTION

19704B MLRS was launched from	, Missile	Number	197	, Round	Number	B-76	•
at <u>1036:11</u> MST, _	25 January	1980	. The	scheduled	launch	time Was	1000
MST.			-				

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

- 1. Observations
 - a. Surface
- (1) Standard surface observations to include pressure, temperature (0 C), relative humidity, dew point (0 C), density (gm/m 3), wind direction and speed, and cloud cover were made at the ______ Met Site at T-O minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE D 31/2 2Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 83.500 feet in 500-feet increments.

SITE AND TIME
NW 30 1036 MST

TABLE 1. Surface Observations taken at 1030 MST, 25 January 1980, at D 3½, 19704B MLRS, Missile Number 197, Round Number B-76.

ELEVATION	3975	FT/MSL
PRESSURE	871.8	MBS
TEMPERATURE	9.0	°c
RELATIVE HUMIDITY	88	%
DEW POINT	7.2	°c
DENSITY	1071	GM/m ³
WIND SPEED	10	KTS
WIND DIRECTION	140	DEGREES
CLOUD COVER	4	Ci

PILOT BALLOON MEASURED WIND DATA

TABLE	2									
RELEASED	FROM	0 34		DATE	25 Janua	ry 1980			_TIME1057	MST
TRACKER	coo	RDINATE	s (W	STM) X=	443,018.90	Υ:		358,189.	24 H= 397	4.89
					O TRUE NORT					
	ARE METERS									
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
	140	10								
SFC 90	163	14	'							
150	149	21								
210	154	25	1							,
270	169	25								
330	178	21	}							
390	177	20								
500	182	08	•							
650	188	07								
800	191	10								
950	184	12	}		,					
1150	220	П								
1350	286	16								
1550	272	19								
1750	286	20								
2000	306	32	ļ	·						
					•					
	1		l				l '	1		

DE 4010.40 FEET MSL	1036 HRS P.ST	n
ALTITUDE	15 JAN. 00	.051
NOT LAT	. N.	0151

DATA	
LEVEL	24 NO
518	

GEOUETIC COORDINATES 32-48497 LAT DEG 106-49714 LON DEG

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PKESSURE			TEMPERATURE	RLL.HUM.
MILLIBAKS	MSL FEET	E S	CENT 161AUL	1 F F C F M
871.6	ė	7.0	-1.4	ŝ
850.0	691.	4.0	0.0-	•
834.6	5181.3	0•9	7.0-	42.0
•	5.0%	 	L.0-	•
•	350		ル・ハー	•
700.0	9462.1	9	-18.1	23.0
680.0	10627.0	1.1	-21.5	•
6c1.e	11:42.9		-24.5	16.0
591.4	14274.5	-5.6	-27.4	•
500.0	18517.1	•	N• # C#	•
8.604	20053.2	-18.5	-35.0	•
4.39.8	21659.3	-22.6	-35.0	31.0
432.0	22n57.6	-22.9	0.04-	•
400.0	23929.7	-27.5	43.9	19.0
350.0	20502.1	-33.6		
311.6	29542.0			
300.0	30523.7	145.4		
282.6	31,50.1			
2.042	34504.1	-55.1		
209.6	38197.7	6. 59.8		
202.5	38530.9	•		
200.0	39172.2	-56.7		
196.0	59596.1	8.4S-		
170.2	42567.3	55		
157.0	45237.4	-53.2		
143.6	46163.5	-53.2		
122.3	49530.9	-5H.R	•	
116.2	51537.7	-59.9		
10/01	52287.1	-59.9		
0.001	53672.2	ď		
47.2	561139°N	-67.6		
0.5/	60R75.5			
0.09	64010.2	-62.8		
5.5	67761.3	-58.5		
	71272.5	-60•3		
C	72484.4	-58.4		
å	8376	1.7.		
24.0	3045	-57.0		
76.0	6951	-58.6		
17.0	90220.3	-60.1		

STATION ALTITUDE	UDE	4310.40 FEET MSL	T MSL	ر	UPPER AIR LATA	LATA 25		6E0DET I	COORDINATES
ASCENSION 1.0.	D	TEN SAM BEST	- -		TABLE 4			106.	32.88497 LA! DEG 106.49714 LON CEG
GEOML INIC	PHESSURE	TEM	TEMPERATURE	REL. HUM.	DENSITY	SPEED OF	WINU DATA	Y.	INCEX
ALIIIUUL MSL FEEI	HILLIBAKS	AIR UEGREES	DEWPOINT CENTIGRADE	PERCENT	GM/CUHIC METER	SOUNA RNUTS	DIRECTION DEGREES(TW)	SPEEU KNOTS	OF REFHACT1011
4010.4	871.8	7.0	-7.4	55.0	1081.5	6,2,8	170.0	5.1	1.000268
4500.6	450.1	5.3	-4-7	1.8°	1069.1	650	1/4-0	4	1.000259
5.00.0	840.3	5.5	5.0	43.5	1040.7	650	1.6.1	9.0	1.000253
5500.0	1.424	5. 5	-6.3	42.3	1023.5		196.5	J.E	1.000248
0.0000	***	4.7	-6.9	42.7	1013.1	4.61.9	204.2	3.5	•
0.000	***6/	٠٠ ١٠٠	-7.5	43.1	997-3		250.5	3.6	•
0.00°Z	1.677	3•1	- I	C	941.6		\$21·4		1.000235
	7.00/	7 3	7.0	7	9 • 0 Q 6	7.7.	6.007	0.7	•
5.0000	730.9		-11.5		0.00	0.7	28.501	7.1	
9000°	123.6		6.514	30.5	915-7	2000	283.4	17.6	•
9500·n	109.0	1.0	-16.2	26.1	9.006	640.4	265.9	18.9	1.000209
10600.0	#*06a	.,	-18.6	21.9	885.2	V. ++0	20802	19.7	1.000204
10500.0	083.3	1.0	-50.6	18.0	867.0	5.540	292.0	17.5	•
11000.0	670.5	Đ	-21.7	16.5	821.6	9.019	†•8 52	•	•
11500.0	D57.8	•••	-22.5	16.0	437.7	5. 5. 70	300.1	14.0	•
12,00.0	040.0	30 a	3°00	16.0	825.0		313.0	13.6	1.0001e8
1.00524	1000	0 5	7.40	0.61	0.219		7010	D .	•
15,00.0	7.600	1 t	-26.0	16.0	785.	0 to 0	510 5005	2.01 2.01	1.000152
0.0004T	1.160	J-5-U	-26.9	16.0	776.2		300.0	8	_
14500.ñ	230.1	7.9-	-27.7	16.2	764.5		308.2	19.7	
15000-0	274.1	-7.4	-28.5	16.5	753.0	٠.	300.00	20.7	•
15500.6	365.4	200	n.:21	16.9	741.7		30C	21.7	1.900168
	4,146	17.1	10101	7.1	710-4		5.00°C	1	•
17009.0	7.000	-12.3	-31.7	17.9	703.6	0.000	3000 5000 5000 5000 5000	20.0	1.000103
17500.0	520.5	-13.5	-32.5	18.3	690.08		303.7	21.5	
10000	510.3	-14.7	-33.5	18.6	6-7-8		304.5	20.5	•
16500.3	2000	-16.0	-34.2	19.0	677.5	6.4.0	305.6	18.8	1.000153
19000-0	\$ · US#	-16.8	£ 98.	6.07	660.1		307.2	17.8	•
0.01.61 0.01.61	13C-0	27.5	7.55-	25. 25. 25. 25. 25. 25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26	654.8		309.0	16.9	
E-parting.		100	?	54.0	- · · · · · · · · · · · · · · · · · · ·		7.007	5.01	1000
D. CO. CO. C.	70101	2.0		7.02	7.550		7.000	10.	#100U•
0.00017	**************************************	2000		0.07	0000 0000 0000 0000		70407	3	\$1000·
75.000	2 4 4 5	7 · C · C · T		20.7	*******		1000	901	710000
0.0017	****	-040	, ,	0.01	70.00	2010	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	17.0	
2.000×	410.4	-25.2	-47.0	19.0	584.2	9 10	312.9	18.8	1000
2.5000.0	407.3	-26.4	0.81	19.0	575.0	6110	314.5	6	000
,		ı		ı			,	l	

		CPPE
STATION ALTITUDE	#OLU.40 FEET MSL	026
25 JAN. 60	1036 HKS NST	3
ASCELSTON NO. 5	n	F

	GEODETIC COOKDINATES	32.88497 LAT LEG	106.49714 LON LEG
UPPER AIK LATA	0250220005	OR BO	TABLE 4 (CONT)
	iSL		

STATION ALTITUDE 4010-40 FEET MSL	1056 HKS MS1	
ALTITUDE 40	96	· 110.
STATION	25 JAN.	ASCE1;210

UPPER AIM DATA 0250220005 NW 30

GEODETIC COOKDINATES 32.88497 LAT DE6 106.49714 LON DE6

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GEURIE IKIL ALIITUUE MSL FEET	PRESSUME MILLIDAMS	TEMP AIK Degrees	TEMPERATURE K DEWPOINT EES CENTIGRADE	rel.Hum. Percent	DENSITY GRZCUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(TN) K	SPEED KHOTS	INDEX OF REFRACTION
0.00344	159.0	-54.2			253.0	576.5	278-1	37.3	1.000056
0.00544	155.3	-53.00 -53.00 -53.00			246.7	577.0	279.2	37.9	1.000055
C-00',C#	•	-53.2			234.7	_	279.2	39.6	
400000		-53.2			229.5		278.0	40.6	1.000051
40500.0	191.3	-53.8			554.4		278.4	42.1	
470110-0	130.0	-54.6			213.9	575.9	2/3.3	43.7	1.000049
475,000-6		4.55-			213.6	574.9	278.2	45.6	1.000048
40,110.0		-56.3			211-3	573.7	2/8.2	47.9	1.000047
48>40.0		-57.1			207.1	572.0	2/0.2	50.5	1.000046
0.00004		6-25-			203.0	571.5	277.8	50.6	1.000045
44500.0		-58.7			199.0		2/7.3	50.6	1.000044
200000		-59.3			194.7		276.7	50.5	
\$0.50G		-53·B			194.5		2/2.5	46.4	+00000•
51,000.9		-88.9			186.1		273.5	42.6	1.000041
51500.0	111.	-59.9			181.6		272.0	39.7	
52nt0.0		-59.9			177.4		271.2	38.0	1.000039
0.00022		-60.5			175.3		2/0.3	36.3	1.000039
220,00.0	103.3	-61.5			179-0		2/0.3	37.0	
555HB.A	9.0UT	-62.4			160.7		270.5	38.0	
C.00040	3.0 0	-63.0			163.1		270.9	38.8	1.000036
54500 O	0·06	-63.6			159.5		2/1.6	39.2	1.000036
0•naliss	93.6	1.43-			150.0		2/2.7	39.7	1.000055
555,00.3	91.5	-64.6			152.0		273.5	39.4	1.000024
56:000		-65.1			143.2		2/4.3	38.8	1.000033
505,Uft. A		-65.6			145.9	501.3	2/2.0	38.2	1.000032
2/000.0		-65.3			145.1		273.3	37.4	•0000
57500.0	94.1	-65°B			150.5		27,2.0	36.5	1.000631
200000	30.	1.49-			24.0		2/2.5	35.8	1.000030
24500.1	1.87	104.4			151.4	-	2/0.0	35.4	1.000629
29000.0	2002	-64.1			120.0		2.6.2	34.9	1.000029
0.000,640		-63.8			12:4.7		2,6.5	す・すり	
0.00000		-63.5			121.5		2/0.8	33.9	1.000627
0.00000		-63.2			116.3		277.1	33.4	1.000026
61,00.n		-43.0			115.3		517.9	32.8	1.000026
615.90 · C	6.7.3	-f,3•f)			112.5		278.9	32.1	1.000025
J•00(170		-65.9			109.6	56,4.9	240.0	31.3	1.000024
0.311.20	, , ,	6.2.9			1117.1		261.3	31.2	1.0000%
63r.00.0	65.	-625.4			104.5		202.1	31.3	1.000023
0.5500.0	61.5	-62.8			101.9	5°2°0	264.1	31.5	1.000625

STATION ALTIT 25 JAN 60 ASCELSION NO.	UDF #1	JIO.40 FEET MSL 1036 HMS MST	ET MSL	_	UPPER AIM LATA 0250220005 NW 30 TABLE 4 (CONT	CONT)		GEODE 11 32 • 106 •	GEODETIC COOKDINATES 32.46497 LAT UEG 106.49714 LON LEG
GECINE INIC	PRESSURE		TEMPERATUME	REL.HIM.	CENSITY	SPEED OF	WING DATA	1 A	INUEX
ALITUUE MSL FEE!	FILLIDARS	AIN S DEGREES	DEWPOINT CENTIGRADE	PERCENT	GM/CUHIC METER	SOCIATION NEW YORK	DIRECTION DEGREES(TN)	SPEED KNOTS	OF KEFKÄCT101,
64000.0	60.0	-62.8			9.66	5,50	284.7	30.	1.000022
A46.110.0		649			6	2	2544.0	•	10
65000	5.00	·			0.76		2020	25.7	1.00062
0.00,00		Ĭ			91.6		282.5	23.1	1.00000
0.0000	54.0				89.2		276.5	20.3	1.000020
665UU·0	55.6				8.08		204.7	17.8	1.000019
67,100.0	51.9	•			3. 48.		204.1	17.3	.0000
67500 · C	50.0	•			82.2		204.1	18.3	1.000018
0.00000	さかっせ	-58.3			A0.0		204·C	19.4	1.000018
000,000	44.5	-56.6			70.4		267.1	19.6	1.000017
0.00059	47.1	•			ار. و		274.0	19.0	1.000017
0.00060	2.04	•			6.57		281.2	18.8	1.000017
0.0000/	て・ささ	•			73.2		267.7	18.5	1.000016
70-200-9	43.8	R.65-			71.5		291.4	16.6	1.000016
71640.0	R•24				6.69		240.0	14.6	1.000016
71599-0	41./				60.2		301.0	13.1	1.000015
720,00.0		i			66.3		307.7	12.5	1.000015
72500.0	39.4				64.5		313.7	12.2	1.000014
13000.0		•			65.0		320.0	12.1	
73500.0	7.70				4.19		342.5	12.5	1.000014
U-000+/	37.0				0.09		321.6	13.3	1.000013
74500.0	30.1	•			3-79	571.4	5×1・3	14.2	
75000	35.0				57.1		340.0	15.0	1.00013
755.00·C	34.46	6.77.			55.7		312.6	14.6	
J-0000/	33.6				24.40		304.5	14.2	
70500.0	37.0				1.26		303.1	13.9	1.000012
77000.0	32.0				51.8		297.3	13.8	1.000012
V.000.//	31.5				9.5		274.6	13.5	1.000011
78000.5	30.3				やった	572.1	292.3	13.2	
ເ-ກາເສາ	27.6				40.2		583.6	12.9	1.000011
7.000.67	29.1				9.4.5		200.0	12.8	10000
12.00·0	20.4	•			6.5 a		230.1	12.8	.00001
3.00cos	27.8				0.75		291.0	12.8	1.000010
BU500.0	27.1				45.7	574	293.0	12.6	1.000010
01000	20.0	-67.2			L. 35	572	224.0	12.6	1.000010
01500.0	22°B				41.7	572	270.3	12.3	1.000009
95000.0	25.4	•			40.4	572	298.1	12.0	
62500·G	24.6	•			20.5	5./2	300.0	11.8	
82ij0fj+3	24.1	-57.0			_	J	301.1	12.4	1.00000
9.900559	23.5	ı			37.9	572	304-1	12.9	1.000008

STATION AL	STATION ALTITUDE 4010-40 FEE	10.40 FEE	ET MSL	_	UPPER AIR LATA 0250720005	LATA 105		6E00ET	GEODETIC COORDINATES
25 CKN BC		1036 HKS	MST		05 AN			200	32.48497 LAT 5E6
ASENSTON NO.	•				TABLE 4 (CONT)	(CONT)			43714 EON DEO
GEUME INIC	PRESSURE	TEMP	TEMPERATURE	REL.HIM.	DENS117	SPEED OF	WIND DATA	V1	INDEX
AL 11 TUDE		AIK	DEWPOINT	PERCENT	SM/CURIC	SCUND	DIRECTION	SPEEU	5
MSL FEET	HILLIBANS DEGREES	DEGREES	CENTISRADE		METER	NNOTS	DEGREES(1N)	KNOTS	REFRACT10%
0.000#A	22.9	-57.4			37.0	572.2	303.0	13.5	1.000008
845,00.0	22.4	-57.6			36.2	-	303.2	14.4	1.000008
85080.0	21.9	-57.8			35.04	571.7	301.9	15.7	1.000008
05500	21.3	-50.0			34.6		3000	17.1	1.000008
80000	20.8	-58.2			3.56	1 571.1	300.0	18.5	1.000008
3.00.39	20.3	-58.5			33.0		301.7	19.1	1.000007
6/000.0		-58.1			52.3		304.8	19.3	1.00001
675,00.0		-56.9			31.5		307.5	19.6	1.000007
88000.0	18.9	-59.1			30.8		310.9	19.9	1.000067
80500.0	18.9	-49.3			30.1	1 5,9.7			1.000007
0.000A	10.0	9.69-			29.4				1.000007
695,00.0	17.0	-59.8			28.7				1.000006
3.0000	17.2	-60.0			26.1				1.000006

FEET MSL	1036 HKS MST
4010+40	D
N ALTITUD	25 Jan. 69 Ascensium mu.
SIATIO	25 JAN ASCENS

LEVELS	0	
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5	02502	30
MANDA	9	3 Z
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TABLE 5

GEODE: IC COORDINATES 32.88497 LAT DEG 105.49714 LON DEG

PKESSURE	PRESSURE GEOPOTENTIAL		TEMPERATURE	KEL . 14U.4.	WIND DATA	ATA
	 	AIR	DE POILT	PERCENT	DIRECTION	SPEED
MILLIBARS	FEET	DEGREES	CENIIGRADE		DEGREES(IN)	KNOIS
850·0	4698.	4.6	-6-0	* 9 †	175.9	£.4
0.008	6312.	¢.,	-7.2	43.	218.9	3.6
750.0		5.9	6.6-	.86	279.2	1.1.4
700-0	_	••	-18.1	23.	9	19.5
650.0	_	# 1	-23.1	16.		13.3
0.009	13586.	8.4-	-26.7	•01		17.9
550.0	16109.	-10-1	-30.2	17.		22.1
0.008		-16.0	-34.2	19.		16.8
0.034	•	-21.2	7.75-	***		16.5
0.004	23891.	-27.5	-43.9	19.	315.2	19.6
350.0	Ī	-34.7	-51·B	15.**	320.9	19.2
300.0		-42.4		I		16.2
. 250.0	34431.	-52.1				23.0
200.0		-56.7			20	20.3
175.0		-55.5				30.4
150.0	_	-53.2				39.1
125.0		-54.0				50.6
100.0	_	-62.7			270.5	38.3
80.0		9.49-				35.7
70.0		-63.0				33.0
0.09		-62.8				30.3
59.0	_	-58.2				18.8
#0.0		-58.6			311.8	12.3
30.0	78047	-57.4				13.0
25.0	0 61830.	-57.1				12.0
20.0	96451.	-58.6			303.6	19.5

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.